CPC COOPERATIVE PATENT CLASSIFICATION

F23L AIR SUPPLY

DRAUGHT-INDUCING

SUPPLYING NON-COMBUSTIBLE LIQUID OR GAS (air-supply

arrangements for fluent fuels F23C; dampers and throat restrictors for open fire-places

<u>F24</u>; air inlet valves for open fire fronts <u>F24</u>)

Guide heading:

F23L 1/00	Passages or apertures for delivering primary air for combustion
F23L 1/02	. by discharging the air below the fire
F23L 3/00	Arrangements of valves or dampers before the fire
F23L 5/00	Blast-producing apparatus before the fire
F23L 5/02	. Arrangements of fans or blowers (fans or blowers per se <u>F04</u>)
F23L 5/04	by induction of air for combustion, e.g. using steam jet
F23L 7/00	Supplying non-combustible liquids or gases, other than air, to the fire, e.g. oxygen, steam
F23L 7/002	. {Supplying water }
F23L 7/005	{ Evaporated water; Steam }
F23L 7/007	. {Supplying oxygen or oxygen-enriched air }
F23L 9/00	Passages or apertures for delivering secondary air for completing combustion of fuel
F23L 9/02	. by discharging the air above the fire
F23L 9/04	. by discharging the air beyond the fire, i.e. nearer the smoke outlet
F23L 9/06	. by discharging the air into the fire bed
F23L 11/00	Arrangements of valves or dampers after the fire
F23L 11/005	. {for closing the flue during interruption of burner function }
F23L 11/02	. for reducing draught by admission of air to flues

F23L 13/00	Construction of valves or dampers for controlling air supply or draught (in general $\underline{F16K}$)
F23L 13/02	 pivoted about a single axis but having not other movement (formed as linked slats each pivoted about an axis <u>F23L 13/08</u>)
F23L 13/04	with axis perpendicular to face
F23L 13/06	. slidable only
F23L 13/08	operating as a roller blind operating as a venetian blind
F23L 13/10	. having a compound movement involving both sliding and pivoting
F23L 15/00	Heating of air supplied for combustion
F23L 15/02	. Arrangements of regenerators
F23L 15/04	. Arrangements of recuperators
F23L 15/045	{using intermediate heat-transfer fluids }
F23L 17/00	Inducing draught
F23L 17/005	. {using fans }
F23L 17/02	Tops for chimneys or ventilating shafts Terminals for flues
F23L 17/04	Balanced-flue arrangements, i.e. devices which combine air inlet to combustion unit with smoke outlet
F23L 17/06	branched T-headed
F23L 17/08	with co-axial cones or louvres
F23L 17/10	wherein the top moves as a whole
F23L 17/12	Devices for fastening the top or terminal to chimney, shaft, or flue
F23L 17/14	Draining devices
F23L 17/16	. Induction apparatus, e.g. steam jet, acting on combustion products beyond the fire
F23L 99/00	Subject matter not provided for in other groups of this subclass
Guide heading:	
F23L 2700/00	Installations for increasing draught in chimneys Specific draught control devices for locomotives

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F23L 2700/002	. Specific draught control devices for locomotives
Guide heading:	
F23L 2900/00	Special arrangements for supplying or treating air or oxidant for combustion Injecting inert gas, water or steam into the combustion chamber
F23L 2900/00001	. Treating oxidant before combustion, e.g. by adding a catalyst
F23L 2900/05021	. Gas turbine driven blowers for supplying combustion air or oxidant, i.e. turbochargers
F23L 2900/07001	. Injecting synthetic air, i.e. a combustion supporting mixture made of pure oxygen and an inert gas, e.g. nitrogen or recycled fumes
F23L 2900/07002	. Injecting inert gas, other than steam or evaporated water, into the combustion chambers
F23L 2900/07003	. Controlling the inert gas supply
F23L 2900/07004	 Injecting liquid or solid materials releasing oxygen, e.g. perchlorate, nitrate, peroxide, and chlorate compounds, or appropriate mixtures thereof
F23L 2900/07005	. Injecting pure oxygen or oxygen enriched air
F23L 2900/07006	. Control of the oxygen supply
F23L 2900/07007	. using specific ranges of oxygen percentage
F23L 2900/07008	. Injection of water into the combustion chamber
F23L 2900/07009	. Injection of steam into the combustion chamber
F23L 2900/15021	. using regenerative heat exchanger bodies with different layers of material
F23L 2900/15022	. using pre-purging regenerator beds
F23L 2900/15041	. Preheating combustion air by recuperating heat from ashes
F23L 2900/15042	. Preheating combustion air by auxiliary combustion, e.g. in a turbine
F23L 2900/15043	. Preheating combustion air by heat recovery means located in the chimney, e.g. for home heating devices
F23L 2900/15044	. Preheating combustion air by heat recovery means using solar or other clean energy

F23L 2700/001 . Installations for increasing draught in chimneys